

# MAGNETIC TAPE CARTRIDGE AND RECORDING/REPRODUCING APPARATUS THEREFOR

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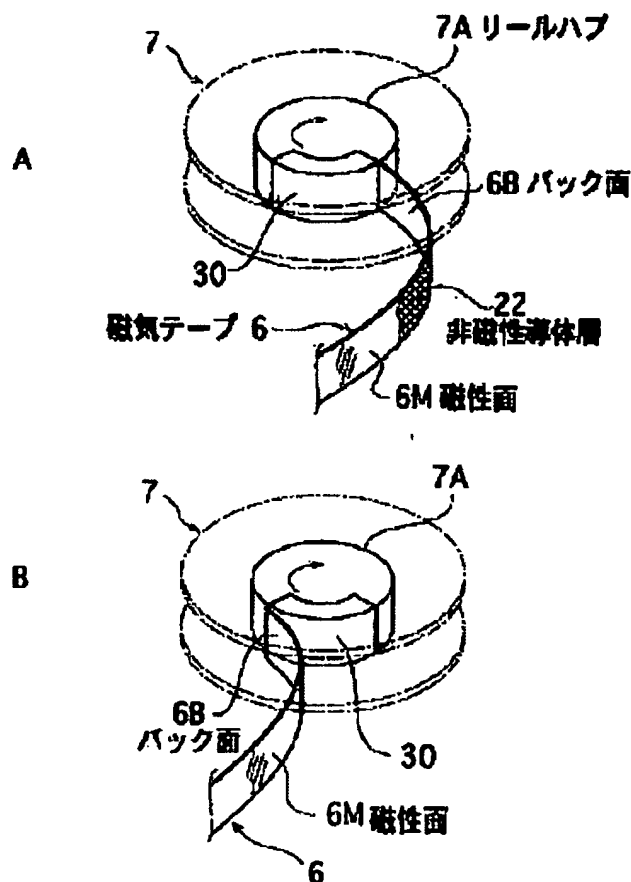
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## Abstract of JP2003223774

**PROBLEM TO BE SOLVED:** To provide a magnetic tape cartridge and a recording/reproducing apparatus for the magnetic tape cartridge, capable of preventing the damage of a magnetic head by preventing the electrification of a magnetic tape, while maintaining the high electromagnetic transducing properties and reducing the resistance of the magnetic tape.

**SOLUTION:** A tape reel 7 is made of a conductive material, in which the surface resistivity in  $\Omega/\text{square}$  of an edge of the magnetic tape 6 connected to a reel hub 7B thereof is made equal to or less than the order of  $10^7$ . The magnetic tape is composed of a multi-layer structure having a magnetic layer 23, a nonmagnetic conductive layer 22, a plastic film 21, and a back coat layer 24, from the side of a magnetic surface 6M. Thus, the nonmagnetic conductive layer 22 exposed by removing the magnetic layer 23 is connected to a reel hub 7A, even when the surface resistivity of the magnetic layer 23 exceeds  $10^7 \Omega/\text{square}$ . Accordingly, the resistance of the magnetic tape can be reduced while maintaining the high electromagnetic transducing properties.



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